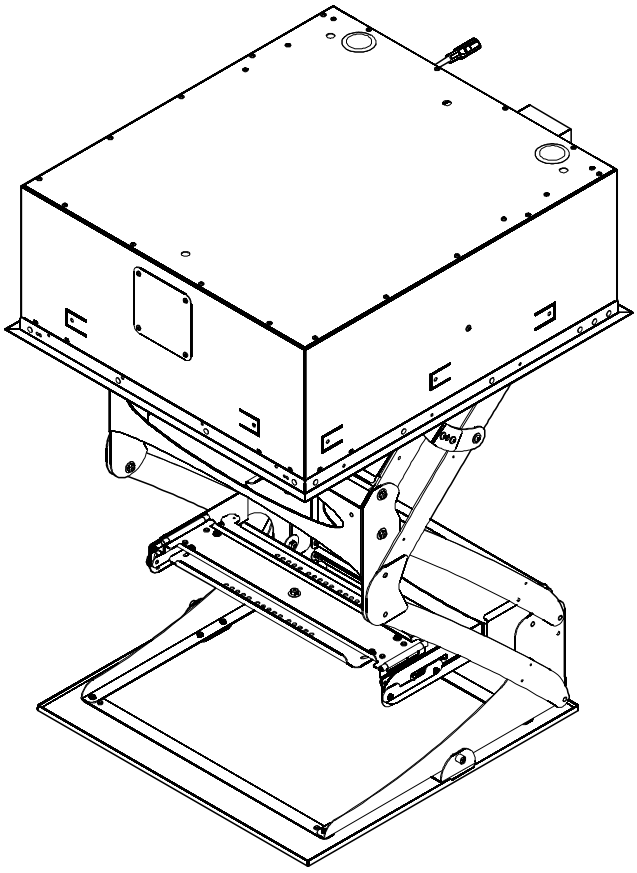
SERVICE MANUAL



Motor Replacement

CHIEF®
Our Mounts. **Your Vision.**

SL236 Motor Replacement

DISCLAIMER

Milestone AV Technologies and its affiliated corporations and subsidiaries (collectively "Milestone"), intend to make this manual accurate and complete. However, Milestone makes no claim that the information contained herein covers all details, conditions or variations, nor does it provide for every possible contingency in connection with the installation or use of this product. The information contained in this document is subject to change without notice or obligation of any kind. Milestone makes no representation of warranty, expressed or implied, regarding the information contained herein. Milestone assumes no responsibility for accuracy, completeness or sufficiency of the information contained in this document.

Chief® is a registered trademark of Milestone AV Technologies. All rights reserved.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

CAUTION: A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

WARNING: Failure to read, thoroughly understand, and follow all instructions can result in serious personal injury, damage to equipment, or voiding of factory warranty! It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided.

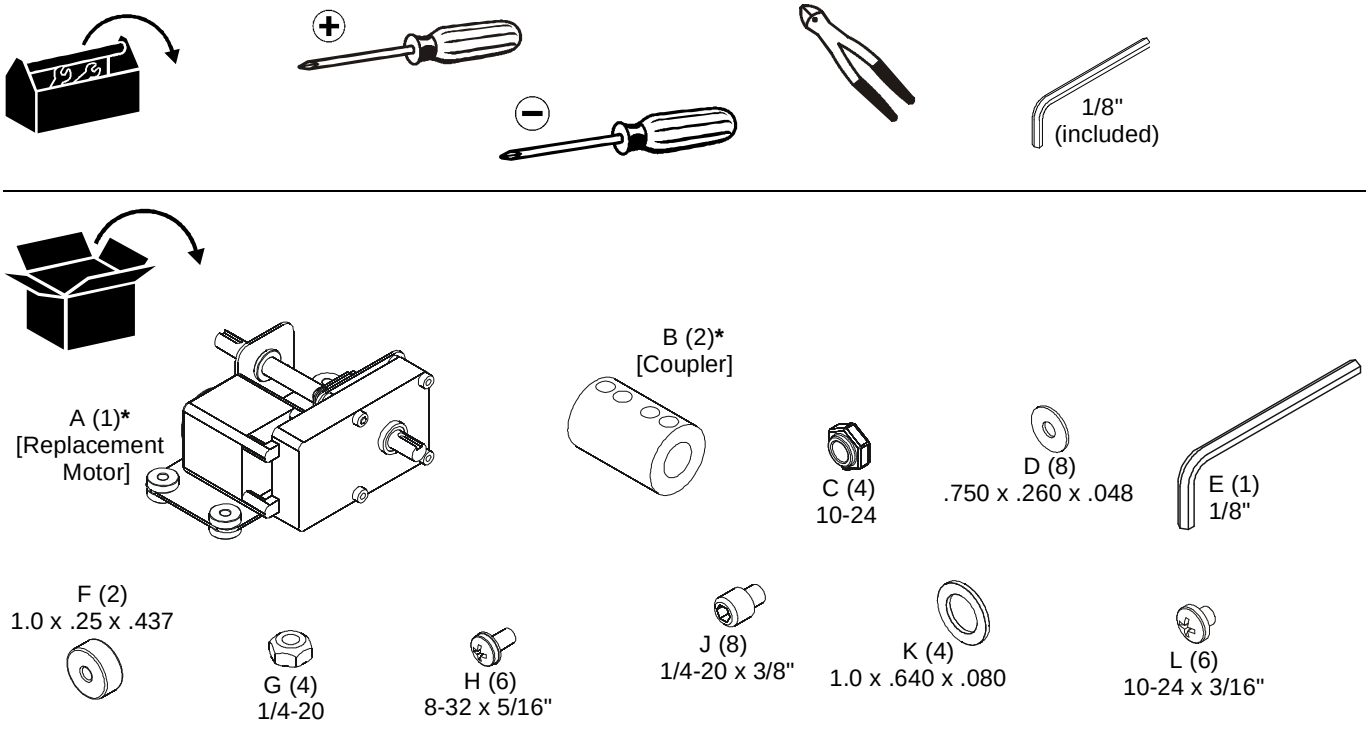
WARNING: Use this mounting system only for its intended use as described in these instructions. Do not use attachments not recommended by the manufacturer.

WARNING: Never operate this mounting system if it is damaged. Return the mounting system to a service center for examination and repair.

WARNING: Do not use this product outdoors.

--SAVE THESE INSTRUCTIONS--

TOOLS FOR INSTALLATION / PARTS



***NOTE: The appearance of these parts may vary from the parts being removed during service due to Chief's program of continuous improvement.**

REMOVING MOTOR

1. Fully lower SL236, if possible.
2. Turn off and remove power from SL236.
3. Remove projector from SL236 following instructions included with the SL236.
4. Remove signal and power cables from projector.
5. Remove projector cradle by removing four locking nuts (two on each side) and additional washers and spacers. (See Figure 1)

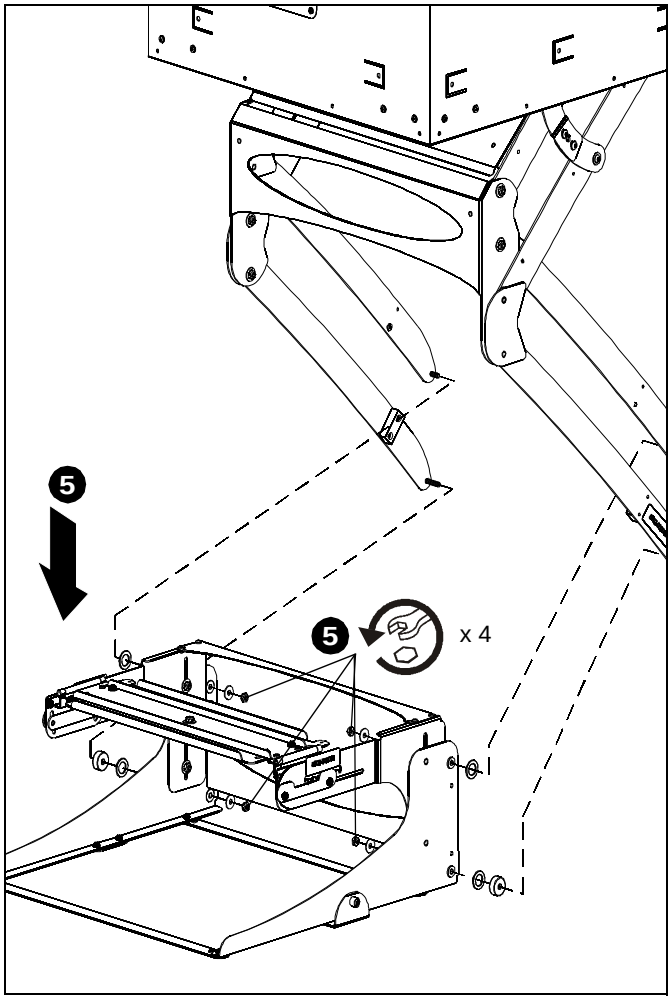


Figure 1

6. Remove six screws (three on each side) from plate and remove plate for easier access to motor area. (See Figure 2)
7. Restore power to SL236.
8. Run the lift up or down until the set screws on the motor couplers face outward so they can be removed in a later step. (See Figure 3)
9. Remove power from SL236.

IMPORTANT ! : Do NOT remove set screws yet.

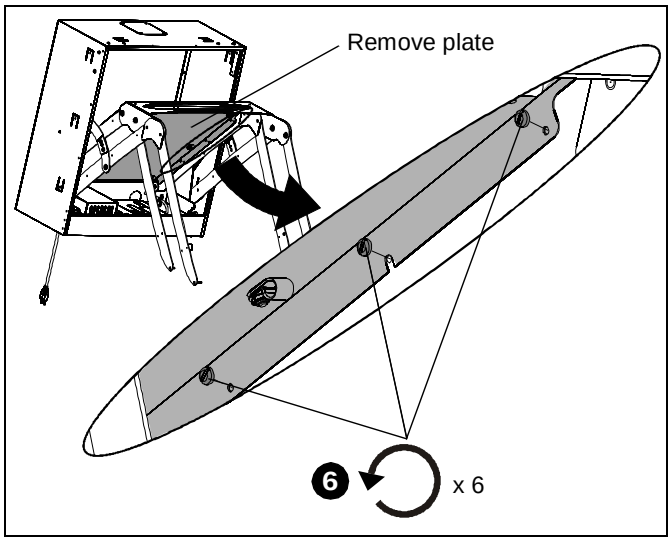


Figure 2

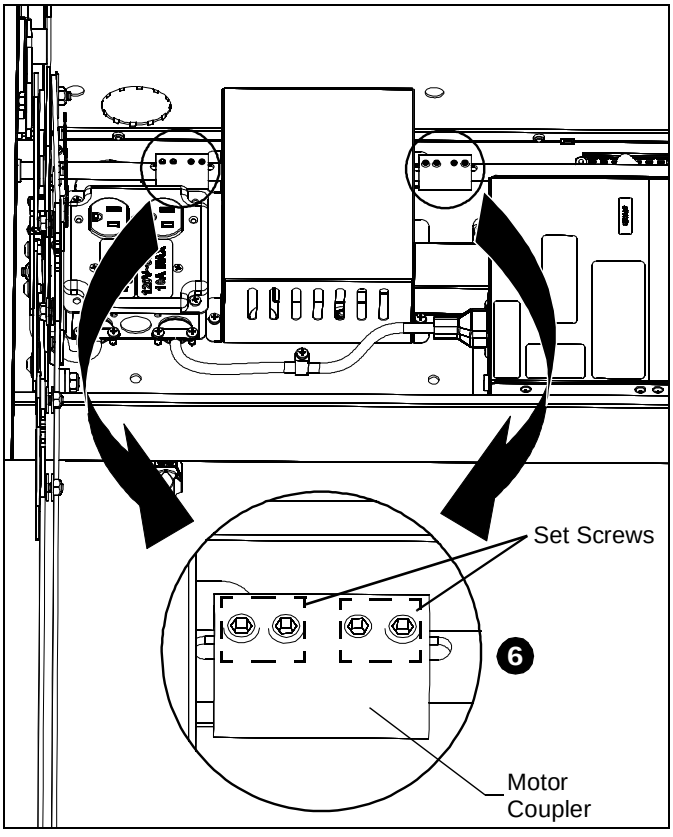


Figure 3

10. Attach wire or something of equivalent strength to the joist mounting tabs on the SL236.
11. Connect these wires to the front of hinge assembly. (See Figure 4)

IMPORTANT ! : Wires should be connected in minimum of two places to prevent the hinge assembly from dropping when the motor is removed.

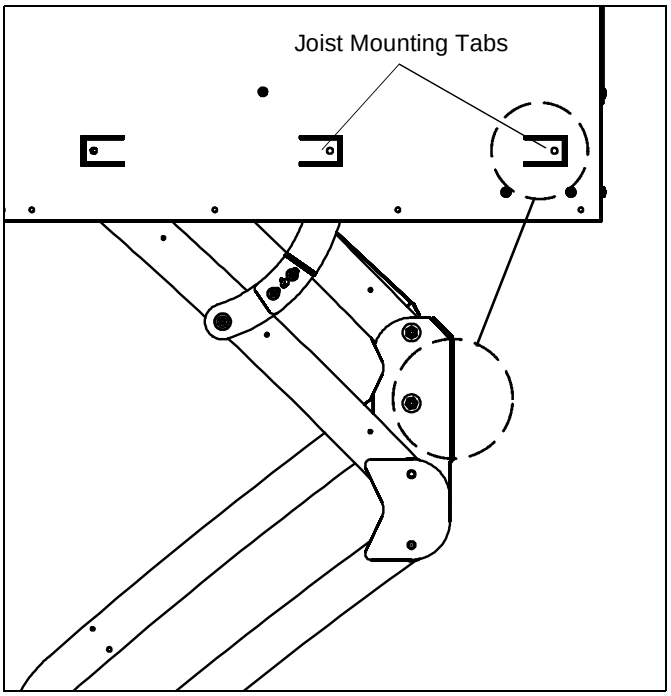


Figure 4

12. Remove motor cover and wiring cover by removing six Phillips head machine screws. (See Figure 5)

NOTE: The wiring cover will only be present on newer units. Older units will not have this cover.

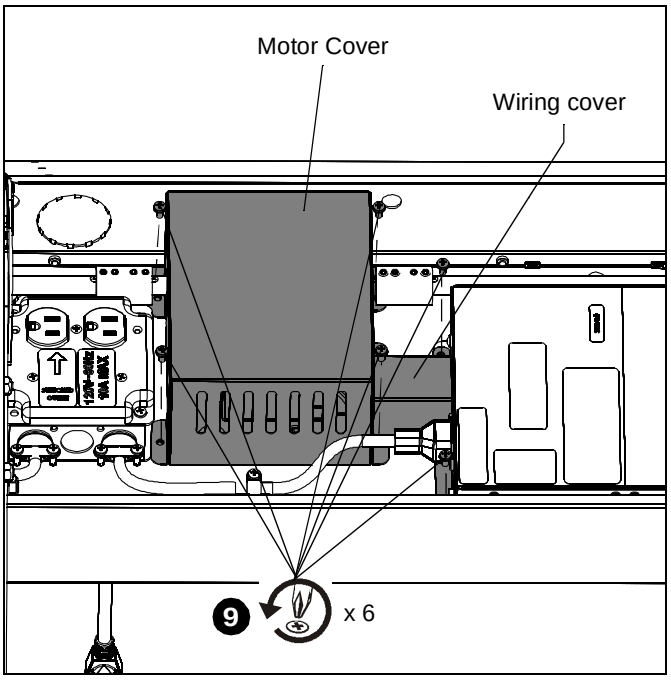


Figure 5

13. Remove four set screws from each of the two motor couplers. (See Figure 6)

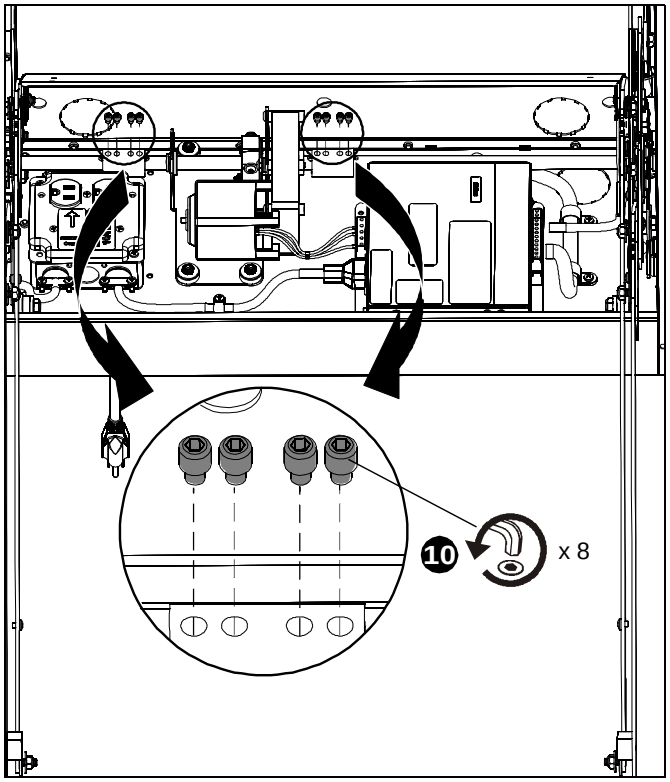


Figure 6

14. Slide motor couplers toward outside of the lift.(See Figure 7)
15. Remove the four nuts and four flat washers holding the motor to the back plate of the lift. (See Figure 7)
16. Unplug and remove the motor.
17. Slide both motor couplers toward the center of the lift and remove couplers from the lift.

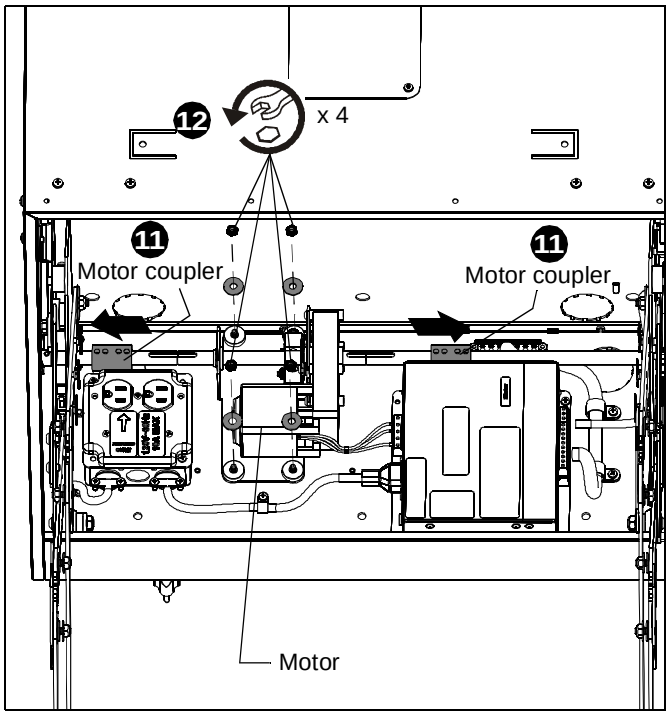


Figure 7

REPLACING MOTOR

1. Ensure that rubber grommets are attached properly to the new motor (A).

NOTE: Use the old motor assembly as a reference for proper placement of rubber grommets.

2. Install two new motor couplers (B) and slide towards outside of lift. (See Figure 8)
3. Place replacement motor (A) in place and fasten with four 10-24 locknuts (C) and four .750 x .260 x .048 flat washers (D) (See Figure 8)

IMPORTANT ! : Do NOT overtighten the locknuts! Stop tightening when one to two threads protrude from the locknut.

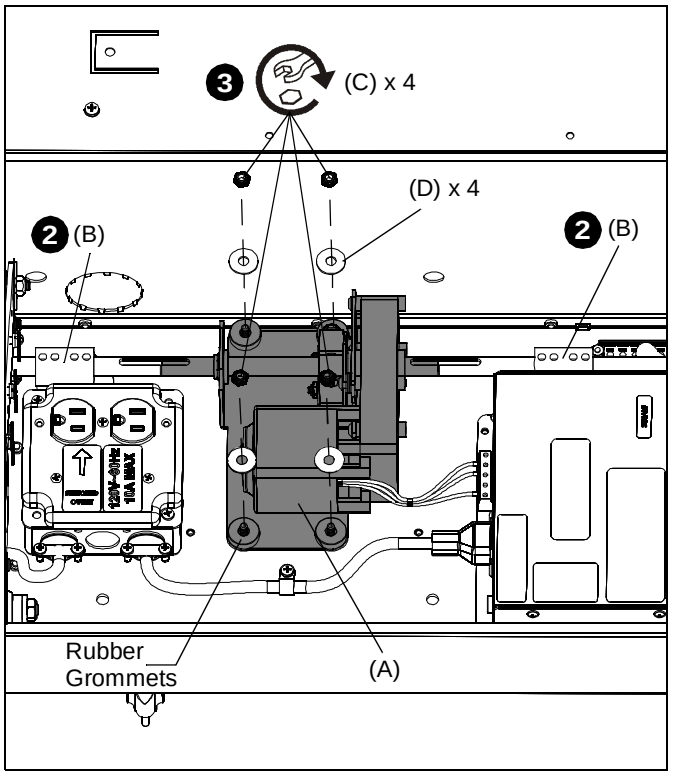


Figure 8

4. Plug in motor.
5. Slide motor couplers (B) towards motor (A) and fasten in place using eight 1/4-20 x 3/8" set screws (J) (four on each motor coupler). (See Figure 9)

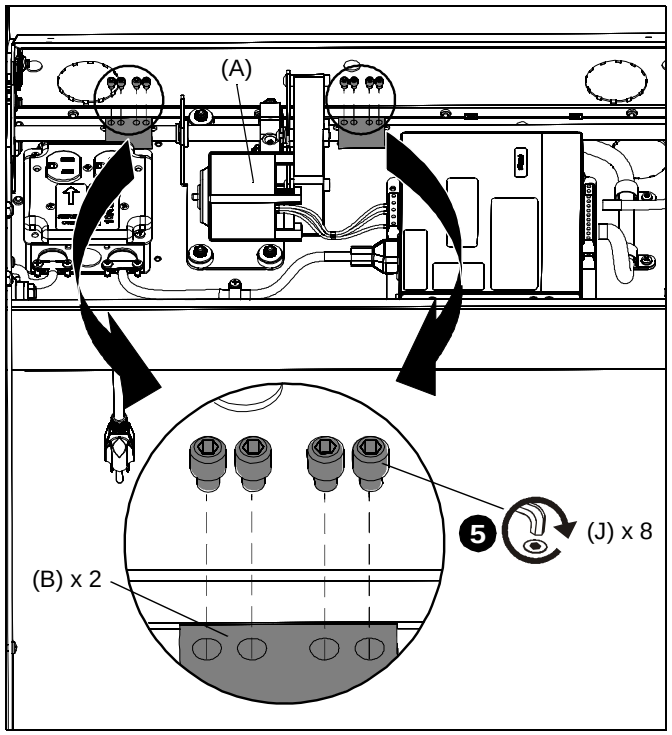


Figure 9

6. Replace the motor cover and wiring cover (if present) and fasten with six 8-32 x 5/16" Phillips head screws (H) . (See Figure 10)

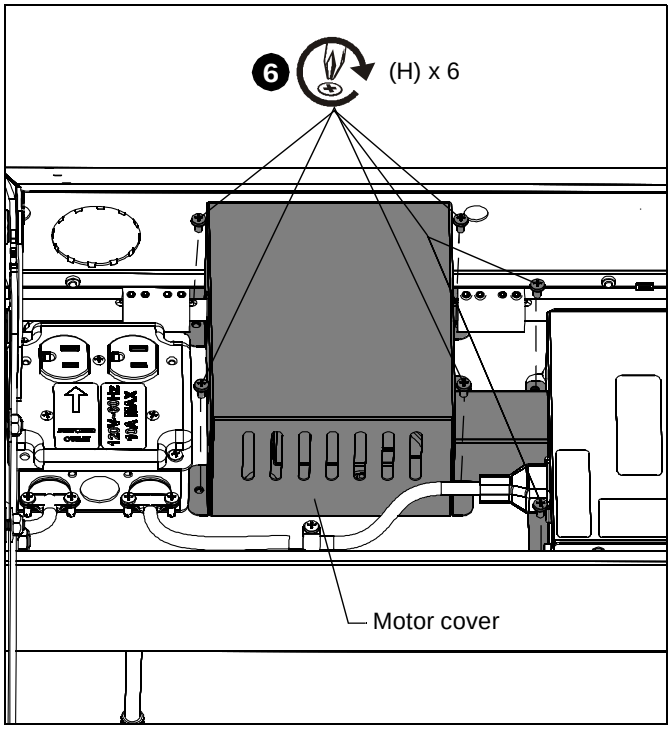


Figure 10

7. Replace plate removed in Step 5 of **Removing Motor** section and fasten with six 10-24 x 3/16" Phillips head screws (L). (See Figure 11)

NOTE: Install middle screw on each side first and set plate on top of two middle screws before adding additional four screws.

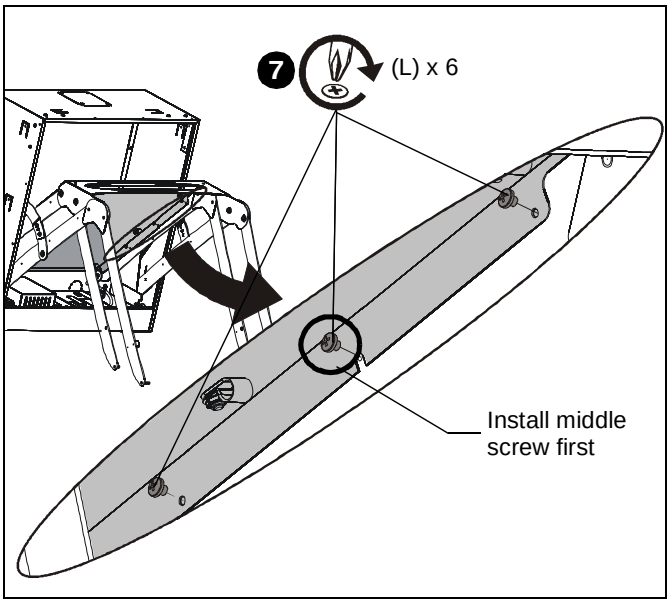


Figure 11

8. Remove cable or wires attached to mounting tabs in Step 10 of **Removing Motor** section.
9. Restore power to SL236.
10. Verify that SL236 is operating properly when moving up and down.
11. Remove power from SL236.

12. Reinstall projector cradle to SL236 lift. (See Figure 12)
    - Use two nylon spacers (K), two flat washers (D) and two locknuts (G) for rear lift arms.
    - Use two steel spacers (F), two nylon spacers (K), two flat washers (D) and two locknuts (G) for front lift arms.
13. Reinstall the projector into the SL236 following instructions included with the SL236.
14. Re-route projector power and signal cables following instructions in the SL236 installation instructions.
15. Restore power to SL236.

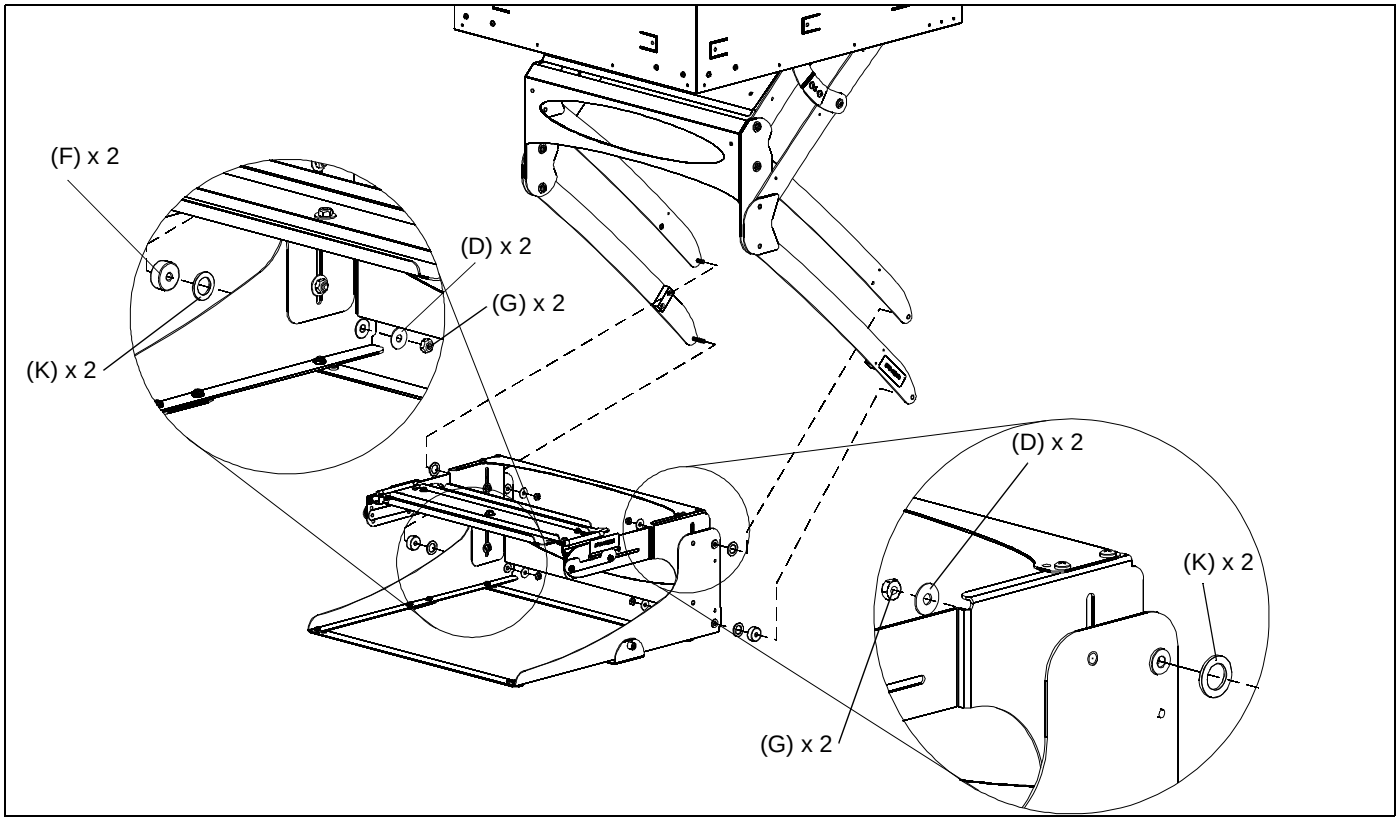


Figure 12

CHIEF®

Our Mounts. **Your Vision.**

Chief Manufacturing, a products division of Milestone AV Technologies

8800-002219 Rev00
©2012 Milestone AV Technologies, a Duchossois Group Company
www.chiefmfg.com
09/12

USA/International
A 6436 City West Parkway, Eden Prairie, MN 55344
P 800.582.6480 / 952.225.6000
F 877.894.6918 / 952.894.6918

Europe
A Franklinstraat 14, 6003 DK Weert, Netherlands
P +31 (0) 495 580 852
F +31 (0) 495 580 845

Asia Pacific
A Office No. 1 on 12/F, Shatin Galleria
18-24 Shan Mei Street
Fotan, Shatin, Hong Kong
P 852 2145 4099
F 852 2145 4477

30% POST-CONSUMER CONTENT